



\*\*FILE\*\*ID\*\*SATSSS42

c 4

(1)	55	DECLARATIONS
(1)	111	CONDITION TABLES
(1)	148	TM SETUP, TM CLEANUP
(1)	247	CONDITION SUBROUTINES - SETUP AND CLEANUP
(1)	335	FORM CONDS
(1)	428	VERIFY
(1)	569	VFY_CLEANUP

0000 1 .TITLE SATSSS42,SATS SYSTEM SERVICE TESTS \$FORCEX (SUCC S.C.)  
0000 2 .IDENT 'V04-000'  
0000 3  
0000 4  
0000 5 :\*\*\*\*\*  
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0000 27 :\*  
0000 28 :\*  
0000 29 :++  
0000 30 :FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)  
0000 31 :  
0000 32 :ABSTRACT:  
0000 33 :  
0000 34 :  
0000 35 : THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED  
0000 36 : WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS42 TO TEST SUCCESSFUL  
0000 37 : OPERATION OF THE \$FORCEX SYSTEM SERVICE. THE SERVICE IS INVOKED  
0000 38 : UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY  
0000 39 : SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT  
0000 40 : OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY  
0000 41 : CHECKING FOR AN SSS NORMAL STATUS CODE, EXPECTED RETURN ARGUMENTS  
0000 42 : AND EXPECTED FUNCTIONALITY PERFORMED.  
0000 43 :  
0000 44 :ENVIRONMENT: USER MODE IMAGE; NEEDS CMKRNL PRIVILEGE,  
0000 45 : DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.  
0000 46 :  
0000 47 :AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: MAR, 1978  
0000 48 :  
0000 49 :MODIFIED BY:  
0000 50 :  
0000 51 :V03-001 LDJ0001 Larry D. Jones, 23-Jun-1983  
0000 52 : Removed the quota list to force the use of the  
0000 53 : default sysboot quota values.  
0000 54 :--

0000 55 .SBTTL DECLARATIONS  
0000 56 : INCLUDE FILES:  
0000 57 :  
0000 58 :  
0000 59 \$PRVDEF : PRIVILEGE BIT DEFINITIONS  
0000 60 \$PHDDEF : PROCESS HEADER OFFSETS  
0000 61 \$PQLDEF : PROCESS QUOTA CODES  
0000 62 \$PCBDEF : PCB LABELS  
0000 63 \$LOGDEF : LOGICAL NAME TABLE TYPE SYMBOLS  
0000 64 \$DIBDEF : DEVICE INFO BLOCK OFFSETS  
0000 65 :  
0000 66 : MACROS:  
0000 67 :  
0000 68 :  
0000 69 : EQUATED SYMBOLS:  
0000 70 :  
0000 71 :  
0000 72 : OWN STORAGE:  
0000 73 :

00000000 75 .PSECT RODATA, RD, NOWRT, NOEXE, LONG  
0000 76 TEST\_MOD\_NAME:: STRING C,<SATSSS42> ; TEST MODULE NAME  
0009 77 TEST\_MOD\_NAME\_D: STRING I,<SATSSS42> ; TEST MODULE NAME DESCRIPTOR  
0019 78 MSG1\_INP\_CTL: STRING I,< SSFEX!4ZW: CONDITIONS:>  
0039 79 ; FAO CTL STRING FOR MSG1 IN SUCCOMMON.MAR  
0039 80 MSG3\_ERR\_CTL:: STRING I,< \*SSFEX!4ZW: !AS>  
0051 81 ; FAO CTL STRING FOR MSG3 IN SUCCOMMON.MAR  
FFFFFFFFFF DC3CBA00 0051 82 ONE\_MIN: .LONG -10\*1000\*1000\*60,-1 ; ONE MINUTE (WAKE-UP DELTA)  
0059 83 CREATED\_PRN: STRING I,<SATSSS42 CRE> ; PROCESS & MBX NAME FOR CREATED PROCESS  
006D 84 IMAGNAM: STRING I,<SYSTST\$RES:SAT\$UT13.EXE> ; IMAGE NAME FOR CREATED PROC  
008C 85 LOGNAM\_PID: STRING I,<SYSTST\$PID> ; LOG NAME OF CREATING PID  
009E 86 EQUIV\_PID: .LONG 4 ; EQUIV NAME STRING DESCRIPTOR  
00A2 87 :ADDRESS CREATING\_PID ; OF CREATING PID  
00A6 88 :QUOTALIST: \$QUOTA CPULM,0 ; INFINITE CPU  
00A6 89 : \$QUOTA BYTLM,512 ; BYTE LIMIT FOR BUFFERED I/O  
00A6 90 : \$QUOTA FILLM,2 ; OPEN FILE COUNT LIMIT  
00A6 91 : \$QUOTA PGFLQUOTA,10 ; PAGING FILE QUOTA  
00A6 92 : \$QUOTA PRCLM,2 ; SUBPROCESS QUOTA  
00A6 93 : \$QUOTA TQUELM,3 ; TIMER QUEUE ENTRY QUOTA  
00A6 94 : \$QUOTA LISTEND ; DEFINES END OF LIST

00000000	96	PSECT	RWDATA, RD, WRT, NOEXE, LONG	
00000008 0000	97	PRIVMASK:	.BLKQ 1	: ADDR OF PRIVILEGE MASK (IN PHD)
0000000C 0008	98	MBXCHAN:	.BLKL 1	: CHAN. NO. FOR MAILBOX FOR CREATED PROCESS
0000000C	99	MBXCHANINFO:		: CHANNEL INFO RETURNED BY GETCHN
00000074 000C	100		.LONG DIB\$K_LENGTH	
00000014 0010	101		.ADDRESS +4	
00000088 0014	102		.BLKB DIB\$K_LENGTH	
0000008C 0088	103	MBXUNIT:	.BLKL 1	: SAVE AREA FOR MAILBOX UNIT NUMBER
0000008C	104	MBXBUFF:	STRING 0,120	: MAILBOX BUFFER FOR CREATED PROCESS
00000110 010C	105	DEST PIDADR:	.BLKL 1	: DESTINATION PID ADDR, WRITTEN BY S.S.
00000114 0110	106	ZEROPID:	.BLKL 1	: PID OF ZEROES
00000000 0114	107	CREATING PID:	.LONG 0	: PID OF CREATING PROCESS
0000011C 0118	108	CREATED PID:	.BLKL 1	: PID OF CREATED PROCESS
00000120 011C	109	EXP_STATUS:	.BLKL 1	: EXPECTED STATUS CODE FROM CREATED PROC

SAT  
Sym  
SYS  
SYS  
SYS  
SYS  
SYS  
SYS  
TES  
TES  
TES  
TES  
TMD  
TM-  
TM-  
VER  
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0120 111 : .SBTTL CONDITION TABLES  
0120 112 :  
0120 113 : \*\*\*\*\* CONDITION TABLES FOR FORCEX SYSTEM SERVICE \*\*\*\*\*  
0120 114 :  
0120 115 : COND 1,NOTARG,<PID ADDRESS>,-  
0120 116 : <NOT SPECIFIED>,-  
0120 117 : <SPECIFIED, NON-ZERO>,-  
0120 118 : <SPECIFIED, ZERO>,-  
0120 119 :  
00000000' 016B 120 : .ADDRESS 0  
00000118' 016F 121 : .ADDRESS CREATED\_PID  
00000110' 0173 122 : .ADDRESS ZEROPID  
0177 123 :  
0177 124 : COND 2,NOTARG,<PROCESS NAME ADDRESS>,-  
0177 125 : <SPECIFIED>,-  
0177 126 : <NOT SPECIFIED>,-  
0177 127 :  
00000059' 01AD 128 : .ADDRESS CREATED\_PRN  
00000000' 01B1 129 : .ADDRESS 0  
01B5 130 :  
01B5 131 : COND 3,NOTARG,<CREATED PROCESS TYPE>,-  
01B5 132 : <SUBPROCESS>,-  
01B5 133 : <DETACHED, DIFFERENT GROUP>,-  
01B5 134 : <DETACHED, SAME GROUP, SAME MEMBER>,-  
01B5 135 : <DETACHED, SAME GROUP, DIFFERENT MEMBER>,-  
01B5 136 :  
00000000 0249 137 : .LONG 0 : PSEUDO-UIC  
00000251 024D 138 : .BLKL 1 : UIC  
00000255 0251 139 : .BLKL 1 : UIC  
00000259 0255 140 : .BLKL 1 : UIC  
0259 141 :  
0259 142 : COND 4,NULL  
025A 143 :  
025A 144 : COND 5,NULL  
025B 145 :  
00000000 146 : .PSECT SATSSS42, RD, WRT, EXE

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0000 148 .SBTTL TM\_SETUP, TM\_CLEANUP  
 0000 149 :++  
 0000 150 : FUNCTIONAL DESCRIPTION:  
 0000 151 :  
 0000 152 : TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM  
 0000 153 : REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF  
 0000 154 : TEST MODULE EXECUTION.  
 0000 155 :  
 0000 156 : CALLING SEQUENCE:  
 0000 157 :  
 0000 158 : BSBW TM\_SETUP BSBW TM\_CLEANUP  
 0000 159 :  
 0000 160 : INPUT PARAMETERS:  
 0000 161 :  
 0000 162 : NONE  
 0000 163 :  
 0000 164 : IMPLICIT INPUTS:  
 0000 165 :  
 0000 166 : NONE  
 0000 167 :  
 0000 168 : OUTPUT PARAMETERS:  
 0000 169 :  
 0000 170 : NONE  
 0000 171 :  
 0000 172 : IMPLICIT OUTPUTS:  
 0000 173 :  
 0000 174 : TM\_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;  
 0000 175 : ALL PRIVILEGES ACQUIRED.  
 0000 176 :  
 0000 177 : COMPLETION CODES:  
 0000 178 :  
 0000 179 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.  
 0000 180 :  
 0000 181 : SIDE EFFECTS:  
 0000 182 :  
 0000 183 : SS\_CHECK AND ERR\_EXIT MACROS CAUSE PREMATURE EXIT  
 0000 184 : (VIA RSB) IF ERROR ENCOUNTERED.  
 0000 185 :  
 0000 186 :--  
 0000 187 :  
 0000 188 :  
 0000 189 :  
 0000 190 TM\_SETUP:  
 52 D4 0000 191 CLRL R2 : INITIALIZE  
 53 D4 0002 192 CLRL R3 : .. CONDITION  
 54 D4 0004 193 CLRL R4 : .... TABLE  
 55 D4 0006 194 CLRL R5 : ..... INDEX  
 56 D4 0008 195 CLRL R6 : ..... REGISTERS  
 FFF3' 30 000A 196 BSBW MOD\_MSG PRINT : PRINT TEST MODULE BEGIN MSG  
 03 00 00000000'EF DE 000D 197 MOVAL TEST MOD\_SUCC\_TMD\_ADDR : ASSUME END MSG WILL SHOW SUCCESS  
 00000000'8F F0 0018 198 INSV #SUCCESS,#0,#3,MOD\_MSG\_CODE ; ADJUST STATUS CODE FOR SUCCESS  
 00000000'EF 0020 :  
 59 00000000'9F D0 0048 199 MODE TD,5\$,KRL : KERNEL MODE TO ACCESS PHD  
 00000000'EF 69 DE 004F 200 MOVL @#CTL\$GL\_PHD,R9 : GET PROCESS HEADER ADDRESS  
 00056 201 MOVAL PHD\$Q PRIVMSK(R9),PRIVMASK ; GET PRIV MASK ADDRESS  
 00057 202 MODE FROM,5\$ ; BACK TO USER MODE  
 203 PRIV ADD,ALL ; GET ALL PRIVILEGES

0077 204 \$SETPRN S TEST\_MOD\_NAME\_D : SET PROCESS NAME  
 0084 205 SS\_CHECK NORMAL : CHECK STATUS CODE RETURNED FROM SETPRN  
 00B2 206 SWAKE S PIDADR=CREATING\_PID : GET MY PID  
 00C1 207 SS\_CHECK NORMAL : CHECK FOR NORMAL RETURN  
 00EF 208 SHIBER S : UNDO ABOVE WAKE  
 00F6 209 SS\_CHECK NORMAL : CHECK FOR NORMAL RETURN  
 0124 210 \$CRELOG\_S TBLFLG=#LOGSC\_SYSTEM, - ; GET MY PID INTO LOG NAME TABLE  
 0124 211 LOGNAM=LOGNAM\_PID, - ; ... FOR USE BY CREATED PROCESS  
 0124 212 EQLNAM=EQUIV\_PID  
 2E 50 E8 013B 213 BLBS R0,10\$ : IF SUCCESSFUL, CONTINUE  
 013E 214 SS\_CHECK NORMAL : USE SS\_CHECK TO TERMINATE MODULE  
 016C 215 10\$:  
 016C 216 :  
 016C 217 : THE FOLLOWING CODE ESTABLISHES UIC'S IN THE CONDITION 3 TABLE  
 016C 218 :  
 59 00000000'9F D0 016C 219 MODE TO,20\$,KRNL : KERNEL MODE TO ACCESS PCB  
 59 00BC C9 D0 018F 220 MOVL @#SCH\$GL CURPCB,R9 : GET CURRENT PCB ADDRESS  
 0196 221 MOVL PCB\$L\_UIC(R9),R9 : PICK UP UIC FROM PCB  
 019B 222 MODE FROM,20\$ : ... AND GET BACK TO USER MODE  
 019C 223 :  
 019C 224 : R9 NOW CONTAINS 'MY' UIC  
 019C 225 :  
 59 00C10000 8F 01 9A 019C 226 MOVZBL #1,R10 : GET COND3 TABLE INDEX NUMBER INTO A REG  
 00000249'EF4A C1 019F 227 ADDL3 #^X10000,R9,COND3\_E[R10] : PUT DIFF GROUP UIC INTO 2ND TABLE ELT  
 01A6 :  
 00000249'EF4A 5A D6 01AC 228 INCL R10 : POINT TO 3RD COND3 TABLE ELEMENT  
 59 D0 01AE 229 MOVL R9,COND3\_E[R10] : PUT MY UIC INTO TABLE  
 00000249'EF4A 5A D6 01B6 230 INCL R10 : POINT TO 4TH COND3 TABLE ELEMENT  
 59 01 C1 01B8 231 ADDL3 #1,R9,COND3\_E[R10] : PUT DIFF MEMBER UIC INTO THE TABLE  
 01C1 232 \$CREMBX\_S (CHAN=MBXCHAN, LOGNAM=CREATED\_PRN, - ; GET MAILBOX FOR PROCESS  
 01C1 233 MAXMSG=#120, PROMSK=#0, BUFQ00=#240  
 01E6 234 SS\_CHECK NORMAL : CHECK NORMAL COMPLETION  
 0214 235 \$GETCHN\_S CHAN=MBXCHAN, - : GET CHAN INFO (UNIT NUMBER)  
 0214 236 PRIBUF=MBXCHANINFO  
 00000088'EF 00000020'EF 3C 022E 237 SS\_CHECK NORMAL : CHECK NORMAL COMPLETION  
 05 025C 238 MOVZWL MBXCHANINFO+8+DIB\$W\_UNIT,MBXUNIT : SAVE MAILBOX UNIT NUMBER  
 0267 239 RSB : RETURN TO MAIN ROUTINE  
 0268 240 TM\_CLEANUP:::  
 0268 241 \$DELMBX\_S MBXCHAN : DELETE TERMINATION MAILBOX  
 0276 242 \$DELLOG\_S TBLFLG=#LOGSC\_SYSTEM, - ; DELETE LOG NAME ACQUIRED ABOVE  
 0276 243 LOGNAM=LOGNAM\_PID  
 FD76' 30 0287 244 BSBW MOD\_MSG\_PRINT : PRINT TEST MODULE END MSG  
 05 028A 245 RSB : RETURN TO MAIN ROUTINE

028B 247 .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP  
 028B 248 :++  
 028B 249 : FUNCTIONAL DESCRIPTION:  
 028B 250 :  
 028B 251 : CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED  
 028B 252 : BEFORE AND AFTER THE VERIFY SUBROUTINE, RESPECTIVELY, WHENEVER A NEW  
 028B 253 : CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON  
 028B 254 : ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE  
 028B 255 : CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED  
 028B 256 : UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES,  
 028B 257 : ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO  
 028B 258 : OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO  
 028B 259 : VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE  
 028B 260 : (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.  
 028B 261 :  
 028B 262 : CALLING SEQUENCE:  
 028B 263 :  
 028B 264 : BSBW CONDX BSBW CONDX\_CLEANUP  
 028B 265 : WHERE X = 1,2,3,4,5  
 028B 266 :  
 028B 267 : INPUT PARAMETERS:  
 028B 268 :  
 028B 269 : CONFLICT = 0  
 028B 270 :  
 028B 271 : IMPLICIT INPUTS:  
 028B 272 :  
 028B 273 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES  
 028B 274 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.  
 028B 275 :  
 028B 276 : OUTPUT PARAMETERS:  
 028B 277 :  
 028B 278 : CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.  
 028B 279 :  
 028B 280 : IMPLICIT OUTPUTS:  
 028B 281 :  
 028B 282 : R2,3,4,5,6 PRESERVED  
 028B 283 :  
 028B 284 : COMPLETION CODES:  
 028B 285 :  
 028B 286 : NONE  
 028B 287 :  
 028B 288 : SIDE EFFECTS:  
 028B 289 :  
 028B 290 : NONE  
 028B 291 :  
 028B 292 :--  
 028B 293 :  
 028B 294 :  
 028B 295 :  
 028B 296 : COND1::  
 05 028B 297 : RSB ; RETURN TO MAIN ROUTINE  
 028C 298 : COND1\_CLEANUP::  
 05 028C 299 : RSB ; RETURN TO MAIN ROUTINE  
 028D 300 : COND2::  
 01 028D 301 : CMPL #ZEROPID,COND1\_E[R2] ; PID SPECIFIED AS 0 ??  
 14 12 0299 302 : BNEQU COND2X ; NO -- NO CONFLICT  
 000001AD'EF43 D5 029B 303 : TSTL COND2\_E[R3] ; YES -- IS THERE A PROCESS NAME ??

0000016B'EF42 00000110'8F  
 14  
 000001AD'EF43 D5 029B

00000000'EF	00000000'EF	0B	12	02A2	304	BNEQU	COND2X		: YES -- NO CONFLICT
			90	02A4	305	MOVB	ONES,CONFLICT		: NO -- INDICATE CONFLICT BECAUSE THIS TYPE
				02AF	306				: ... OF FORCEX WOULD EXIT CREATING IMAGE
				02AF	307	COND2X:			
			05	02AF	308	RSB			: RETURN TO MAIN ROUTINE
				02B0	309	COND2_CLEANUP::			
			05	02B0	310	RSB			: RETURN TO MAIN ROUTINE
				02B1	311	COND3::			
0000016B'EF42	00000118'8F	D1	02B1	312	CMPL	#CREATED_PID,COND1_E[R2]	; NON-ZERO PID SPECIFIED ?		
		19	13	02BD	313	BEQLU	COND3X		: YES -- NO CONFLICT
	000001AD'EF43	D5	02BF	314	TSTL	COND2_E[R3]	; IS PROCESS NAME SPECIFIED ?		
		10	13	02C6	315	BEQL	COND3X		: NO -- NO CONFLICT
				02C8	316				
				02C8	317	: NOTE -- AT THIS POINT, PROCESS WILL BE REFERENCED BY PROCESS NAME.			
				02C8	318	:			
		01	54	D1	319	CMPL	R4,#1		: DOES CONDITION 3 SPECIFY DIFFERENT GROUP ?
		0B	12	02CB	320	BNEQ	COND3X		: NO -- NO CONFLICT
00000000'EF	00000000'EF		90	02CD	321	MOVB	ONES,CONFLICT		: YES -- PROCESS NAME FOR DIFF GROUP IS CONF
				02D8	322	COND3X:			
			05	02D8	323	RSB			: RETURN TO MAIN ROUTINE
				02D9	324	COND3_CLEANUP::			
			05	02D9	325	RSB			: RETURN TO MAIN ROUTINE
				02DA	326	COND4::			
			05	02DA	327	RSB			: RETURN TO MAIN ROUTINE
				02DB	328	COND4_CLEANUP::			
			05	02DB	329	RSB			: RETURN TO MAIN ROUTINE
				02DC	330	COND5::			
			05	02DC	331	RSB			: RETURN TO MAIN ROUTINE
				02DD	332	COND5_CLEANUP::			
			05	02DD	333	RSB			: RETURN TO MAIN ROUTINE

02DE 335 .SBTTL FORM\_CONDS  
 02DE 336 :++  
 02DE 337 : FUNCTIONAL DESCRIPTION:  
 02DE 338 :  
 02DE 339 : FORM CONDS FORMATS AND PRINTS INFORMATION ABOUT  
 02DE 340 : THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.  
 02DE 341 :  
 02DE 342 : CALLING SEQUENCE:  
 02DE 343 :  
 02DE 344 : BSBW FORM\_CONDS  
 02DE 345 :  
 02DE 346 : INPUT PARAMETERS:  
 02DE 347 :  
 02DE 348 : NONE  
 02DE 349 :  
 02DE 350 : IMPLICIT INPUTS:  
 02DE 351 :  
 02DE 352 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES  
 02DE 353 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.  
 02DE 354 : FOR X = 1,2,3,4,5 :  
 02DE 355 : CONDX\_T - TITLE TEXT FOR CONDX TABLE  
 02DE 356 : CONDX\_TAB - ELEMENT TEXT FOR CONDX TABLE  
 02DE 357 : CONDX\_C - CONTEXT OF THE CONDX TABLE  
 02DE 358 : CONDX\_E - DATA ELEMENTS OF THE CONDX TABLE  
 02DE 359 :  
 02DE 360 : OUTPUT PARAMETERS:  
 02DE 361 :  
 02DE 362 : NONE  
 02DE 363 :  
 02DE 364 : IMPLICIT OUTPUTS:  
 02DE 365 :  
 02DE 366 : NONE  
 02DE 367 :  
 02DE 368 : COMPLETION CODES:  
 02DE 369 :  
 02DE 370 : NONE  
 02DE 371 :  
 02DE 372 : SIDE EFFECTS:  
 02DE 373 :  
 02DE 374 : NONE  
 02DE 375 :  
 02DE 376 :--  
 02DE 377 :  
 02DE 378 :  
 02DE 379 :  
 02DE 380 : FORM\_CONDS::  
 02DE 381 : \$FAO\_S MSG1\_INP\_CTL,FAO\_LEN,FAO\_DESC,TESTNUM : FORMAT CONDITIONS HEADER MSG  
 02FD 382 :  
 14 FD00' 30 02FD 383 : BSBW OUTPUT\_MSG :... AND PRINT IT  
 00 00 91 0300 384 : CMPB #COND1\_C,#NULL : IS CONDITION 1 NULL ?  
 03 03 12 0303 385 : BNEQU 10\$ : NO -- CONTINUE  
 00BF 31 0305 386 : BRW FORM\_CONDSX : YES -- SUBROUTINE IS FINISHED  
 00 00 0000'EF 00000120'EF DE 0308 387 10\$:  
 00 00 0000'EF 0000012D'EF42 DO 0313 388 : MOVAL COND1\_T,MSG\_A : SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO  
 00 00 0000'EF 00 90 031F 389 : MOVL COND1\_T,MSG\_B : SAVE ADDR OF COND 1 Curr TEXT ELT FOR FAO  
 00 00 0000'EF 00 90 0326 390 : MOVB #COND1\_C,MSG\_CTXT : SAVE CONDITION 1 CONTEXT FOR FAO  
 00 00 0000'EF 00 90 0326 391 : MOV\_VAL COND1\_C,COND1\_E[R2],MSG\_DATA1 ; GIVE COND 1 DATA VALUE TO FAO

14 FCD7' 30 0326 392 BSBW WRITE\_MSG2 : FORMAT AND WRITE CONDITION 1 MSG  
00 91 0329 393 CMPB #COND2\_C,#NULL : IS CONDITION 2 NULL ?  
03 12 032C 394 BNEQU 20\$ : NO -- CONTINUE  
0096 31 032E 395 BRW FORM\_COND\$X : YES -- SUBROUTINE IS FINISHED

00000000'EF 00000177'EF DE 0331 397 20\$: MOVAL COND2\_T,MSG\_A : SAVE ADDRESS OF CONDITION 2 TITLE FOR FAO  
00000000'EF 0000018D'EF43 DO 033C 398 MOVL COND2\_T,A[R3],MSG\_B : SAVE ADDR OF COND 2 CURR TEXT ELT FOR FAO  
00000000'EF 00 90 0348 399 MOVB #COND2\_C,MSG\_CTXT : SAVE CONDITION 2 CONTEXT FOR FAO  
03 12 034F 400 MOV VAL COND2\_C,COND2\_E[R3],MSG\_DATA1 : GIVE COND 2 DATA VALUE TO FAO

14 FCAE' 30 034F 401 BSBW WRITE\_MSG2 : FORMAT AND WRITE CONDITION 2 MSG  
00 91 0352 402 CMPB #COND3\_C,#NULL : IS CONDITION 3 NULL ?  
03 12 0355 403 BNEQU 30\$ : NO -- CONTINUE  
006D 31 0357 404 BRW FORM\_COND\$X : YES -- SUBROUTINE IS FINISHED

00000000'EF 000001B5'EF DE 035A 405 30\$: MOVAL COND3\_T,MSG\_A : SAVE ADDRESS OF CONDITION 3 TITLE FOR FAO  
00000000'EF 000001CB'EF44 DO 0365 406 MOVL COND3\_T,A[R4],MSG\_B : SAVE ADDR OF COND 3 CURR TEXT ELT FOR FAO  
00000000'EF 00 90 0371 407 MOVB #COND3\_C,MSG\_CTXT : SAVE CONDITION 3 CONTEXT FOR FAO  
03 12 0378 408 MOV VAL COND3\_C,COND3\_E[R4],MSG\_DATA1 : GIVE COND 3 DATA VALUE TO FAO

14 FC85' 30 0378 410 BSBW WRITE\_MSG2 : FORMAT AND WRITE CONDITION 3 MSG  
14 14 91 037B 411 CMPB #COND4\_C,#NULL : IS CONDITION 4 NULL ?  
47 13 037E 412 BEQLU FORM\_COND\$X : YES -- SUBROUTINE IS FINISHED

00000000'EF 00000259'EF DE 0380 413 MOVAL COND4\_T,MSG\_A : SAVE ADDRESS OF CONDITION 4 TITLE FOR FAO  
00000000'EF 00000259'EF45 DO 038B 414 MOVL COND4\_T,A[R5],MSG\_B : SAVE ADDR OF COND 4 CURR TEXT ELT FOR FAO  
00000000'EF 14 90 0397 415 MOVB #COND4\_C,MSG\_CTXT : SAVE CONDITION 4 CONTEXT FOR FAO  
03 12 039E 416 MOV VAL COND4\_C,COND4\_E[R5],MSG\_DATA1 : GIVE COND 4 DATA VALUE TO FAO

14 FC5F' 30 039E 417 BSBW WRITE\_MSG2 : FORMAT AND WRITE CONDITION 4 MSG  
14 14 91 03A1 418 CMPB #COND5\_C,#NULL : IS CONDITION 5 NULL ?  
21 13 03A4 419 BEQLU FORM\_COND\$X : YES -- SUBROUTINE IS FINISHED

00000000'EF 0000025A'EF DE 03A5 420 MOVAL COND5\_T,MSG\_A : SAVE ADDRESS OF CONDITION 5 TITLE FOR FAO  
00000000'EF 0000025A'EF46 DO 03B1 421 MOVL COND5\_T,A[R6],MSG\_B : SAVE ADDR OF COND 5 CURR TEXT ELT FOR FAO  
00000000'EF 14 90 03BD 422 MOVB #COND5\_C,MSG\_CTXT : SAVE CONDITION 5 CONTEXT FOR FAO  
03 12 03C4 423 MOV VAL COND5\_C,COND5\_E[R6],MSG\_DATA1 : GIVE COND 5 DATA VALUE TO FAO

FC39' 30 03C4 424 BSBW WRITE\_MSG2 : FORMAT AND WRITE CONDITION 5 MSG  
05 03C7 425 FORM\_COND\$X:  
05 03C7 426 RSB : RETURN TO CALLER

03C8 428 .SBTTL VERIFY  
03C8 429 :++  
03C8 430 : FUNCTIONAL DESCRIPTION:  
03C8 431 :  
03C8 432 : VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION  
03C8 433 : TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR  
03C8 434 : COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS  
03C8 435 : SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE  
03C8 436 : (\$FORCEX). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED  
03C8 437 : BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS  
03C8 438 : AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF  
03C8 439 : COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN  
03C8 440 : ERR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY,  
03C8 441 : THROUGH THE SS CHECK MACRO); ERR\_EXIT SETS EFLAG TO NON-ZERO,  
03C8 442 : PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER.  
03C8 443 : WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED,  
03C8 444 : AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.  
03C8 445 :  
03C8 446 : CALLING SEQUENCE:  
03C8 447 :  
03C8 448 : BSBW VERIFY  
03C8 449 :  
03C8 450 : INPUT PARAMETERS:  
03C8 451 :  
03C8 452 : NONE  
03C8 453 :  
03C8 454 : IMPLICIT INPUTS:  
03C8 455 :  
03C8 456 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES  
03C8 457 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.  
03C8 458 : FOR X = 1,2,3,4,5 :  
03C8 459 : CONDX\_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX  
03C8 460 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE  
03C8 461 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM  
03C8 462 : FOR CONDX\_E.  
03C8 463 :  
03C8 464 : OUTPUT PARAMETERS:  
03C8 465 :  
03C8 466 : NONE  
03C8 467 :  
03C8 468 : IMPLICIT OUTPUTS:  
03C8 469 :  
03C8 470 : VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS,  
03C8 471 : IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING  
03C8 472 : ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA  
03C8 473 : AN ERR\_EXIT OR SS\_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED  
03C8 474 : ERRORS.  
03C8 475 :  
03C8 476 : COMPLETION CODES:  
03C8 477 :  
03C8 478 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.  
03C8 479 :  
03C8 480 : SIDE EFFECTS:  
03C8 481 :  
03C8 482 : SS\_CHECK AND ERR\_EXIT MACROS CAUSE PREMATURE EXIT  
03C8 483 : (VIA RSB) IF ERROR ENCOUNTERED.  
03C8 484 :  
74

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03C8 485 :--  

03C8 486  

03C8 487  

03C8 488  

03C8 489 VERIFY::  

00000000'EF 95 03C8 490 TSTB : SHOULD CONDITIONS BE PRINTED ?  

03 13 03CE 491 BEQL : NO -- CONTINUE  

FF0B 30 03D0 492 BSBW FORM_CONDS : YES -- FMT & PRINT ALL CONDS FOR THIS T.C.  

03D3 493 5$:  

00000110'EF D4 03D3 494 CLRL : CLEAR ZERO PID  

03D9 495 $CREPRC_S PIDADR=CREATED_PID, PRCNAM=CREATED_PRN, -  

03D9 496 UIC=COND3_E[R4], IMAGE=IMAGNAM, -  

03D9 497 MBXUNT=MBXUNIT;, QUOTA=QUOTALIST  

0410 498 SS_CHECK NORMAL : CREATE A PROCESS TO BE FORCEX'D  

0410 499 $SCHEDWK_S DAYTIM=ONE_MIN : ... AND MAKE SURE IT CREATED OK  

043E 500 SS_CHECK NORMAL : WAKE SELF IN 1 MIN IF CREATED PROC DOESN'T  

0451 501 SS_CHECK NORMAL : CHECK FOR NORMAL RETURN  

047F 502 $HIBER_S : SLEEP UNTIL CREATED PROC IS FULLY CREATED  

0486 503 SS_CHECK NORMAL : EXPECT NORMAL RETURN  

04B4 504 $SCANWAK_S : GET RID OF SCHEDULED WAKE-UP  

04BF 505 SS_CHECK NORMAL : CHECK FOR NORMAL STATUS RETURN  

04ED 506 :  

04ED 507 : SCHEDULED WAKE-UP WILL ONLY BE EFFECTED IF CREATED PROCESS DOES  

04ED 508 : NOT GET FULLY CREATED. IN THIS CASE, THE SUBJECT SYSTEM SERVICE  

04ED 509 : BELOW WILL FAIL WITH AN APPROPRIATE ERROR CONDITION.  

04ED 510 :  

04ED 511 :  

04ED 512 : THE FOLLOWING CODE LOOKS FOR THE SPECIAL CASE OF NO PID SPECIFIED  

04ED 513 : AND NO PROCESS NAME SPECIFIED IN CONDITION TABLES. IF THIS CASE  

04ED 514 : IS PRESENT, FORCEX IS NOT ISSUED HERE, BUT, INSTEAD, A SWAKE IS  

04ED 515 : ISSUED FOR THE CREATED PROCESS, WHICH, IN TURN, ISSUES A $FORCEX  

04ED 516 : TO FORCE ITS OWN EXIT. FOR ALL OTHER CASES, THE CREATED PROCESS  

04ED 517 : IS FORCED TO EXIT BY A $FORCEX ISSUED HERE IN THIS PROCESS.  

04ED 518 :  

0000016B'EF42 D5 04ED 519 TSTL : IS PIDADR SPECIFIED ??  

54 12 04F4 520 BNEQU 10$ : YES -- NO SPECIAL CASE -- CONTINUE  

000001AD'EF43 D5 04F6 521 TSTL : NO -- HOW ABOUT PROCESS NAME ??  

4B 12 04FD 522 BNEQU 10$ : IT EXISTS -- A NORMAL CASE  

04FF 523 $SWAKE_S PIDADR=CREATED_PID : NO PIDADR OR PIDADR SPECIFIED  

050E 524 SS_CHECK NORMAL : WAKE CREATED PROCESS TO FORCE ITSELF  

050E 525 MOVL : CHECK FOR NORMAL STATUS RETURN  

053C 526 CREATED_PID, EXP_STATUS : ... SET UP EXPECTED STATUS CODE  

010E 31 0547 527 BRW 20$ : ... AND GO WAIT FOR ITS MAIL  

054A 528 10$:  

054A 529 :  

054A 530 : SET UP TO ISSUE SUBJECT $FORCEX IN THIS PROCESS  

054A 531 :  

0000011C'EF 00000114'EF D0 054A 532 MOVL : SET UP EXPECTED STATUS CODE  

0000010C'EF 0000016B'EF42 D0 0555 533 MOVL : GET PID ADDRESS OUT OF TABLE  

59 000001AD'EF43 D0 0561 534 MOVL : PRCNAM ADDR INTO REG FOR INDIRECT REF'RNC  

0569 535 :  

0569 536 : ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****  

0569 537 :  

0569 538 $FORCEX_S PIDADR=@DEST_PIDADR, PRCNAM=(R9), -  

0569 539 CODE=EXP STATUS  

00000000'8F 50 D1 057E 540 CMPL : CODE RECEIVED = CODE EXPECTED ?  

61 13 0585 541 BEQLU 15$ : YES -- CONTINUE

```

00000000'EF 00000000'BF DO 0587 542  
00000000'EF 50 DO 0592 543  
00000000'EF 68 13 05E8 544  
0000010C'FF 00000118'EF D5 05E8 545 15\$:  
0000010C'FF 5B 13 05EE 546  
00000000'EF 00000118'EF DO 05F0 547  
00000000'EF 0000010C'FF DO 05FB 548  
00000000'EF 00000118'EF DO 05FD 549  
00000000'EF 0000010C'FF DO 0608 550  
00000000'EF 00000118'EF DO 0613 551  
00000000'EF 0000010C'FF DO 0658 552  
00000000'EF 00000098'EF D1 06AF 553 20\$:  
00000000'EF 69 13 06BA 554  
00000000'EF 0000011C'FF DO 06BC 555 : CREATED PROCESS HAS BEEN FORCEX'D (BY THIS PROCESS OR BY ITSELF)  
00000000'EF 00000098'EF DO 06C7 556 :  
00000000'EF 00000098'EF DO 06D2 557 : \$QIOW\_S CHAN=MBXCHAN, FUNC=#IOS READVBLK, -  
00000000'EF 00000098'EF DO 0725 558 : P1=MBXBUFF+8, P2=MBXBUFF  
00000000'EF 00000098'EF DO 0725 559 : WAIT FOR CREATED PROCESS TO SEND MAIL  
00000000'EF 00000098'EF DO 0725 560 : SS\_CHECK NORMAL  
00000000'EF 00000098'EF DO 0725 561 : CMPL MBXBUFF+12, EXP\_STATUS  
00000000'EF 00000098'EF DO 0725 562 : BEQLU VERIFYX  
00000000'EF 00000098'EF DO 0725 563 : MOVL EXP\_STATUS, EXPV  
00000000'EF 00000098'EF DO 0725 564 : MOVL MBXBUFF+12, RECV  
00000000'EF 00000098'EF DO 0725 565 : ERR\_EXIT LONG,<INCORRECT EXIT STATUS CODE RETURNED IN MAILBOX>  
00000000'EF 00000098'EF DO 0725 566 VERIFYX:  
00000000'EF 00000098'EF DO 0725 567 RSB : RETURN TO CALLER

0726 569 .SBTTL VFY\_CLEANUP  
0726 570 :++  
0726 571 : FUNCTIONAL DESCRIPTION:  
0726 572 :  
0726 573 : VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE  
0726 574 : EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST  
0726 575 : ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN  
0726 576 : ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERR EXIT  
0726 577 : ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED  
0726 578 : IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING,  
0726 579 : WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN  
0726 580 : POSSIBLY DISCOVERING A SECOND ERROR.  
0726 581 :  
0726 582 : CALLING SEQUENCE:  
0726 583 :  
0726 584 : BSBW VFY\_CLEANUP  
0726 585 :  
0726 586 : INPUT PARAMETERS:  
0726 587 :  
0726 588 : NONE  
0726 589 :  
0726 590 : IMPLICIT INPUTS:  
0726 591 :  
0726 592 : R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES  
0726 593 : FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.  
0726 594 : FOR X = 1,2,3,4,5 :  
0726 595 : CONDX\_E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX  
0726 596 : TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE  
0726 597 : ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM  
0726 598 : FOR CONDX\_E.  
0726 599 :  
0726 600 : OUTPUT PARAMETERS:  
0726 601 :  
0726 602 : NONE  
0726 603 :  
0726 604 : IMPLICIT OUTPUTS:  
0726 605 :  
0726 606 : NONE  
0726 607 :  
0726 608 : COMPLETION CODES:  
0726 609 :  
0726 610 : EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.  
0726 611 :  
0726 612 : SIDE EFFECTS:  
0726 613 :  
0726 614 : SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT  
0726 615 : (VIA RSB) IF ERROR ENCOUNTERED.  
0726 616 :  
0726 617 :--  
0726 618 :  
0726 619 :  
0726 620 :  
0726 621 VFY\_CLEANUP:  
05 0726 622 \$DELPRC\_S PRCNAM=CREATED\_PRN : DELETE CREATED PROCESS (IF STILL HERE)  
0735 623 RSB : RETURN TO CALLER  
0736 624 .END

\$\$\$\$	= 000006DC	R	04	DESC	= 00000010	G	
\$\$\$CHARS	= 0000002E			DEST_PIDADR	= 0000010C	R	03
\$\$\$CHARS1	= 0000000A			DIBSR_LENGTH	= 00000074		
\$\$\$CHARS2	= 00000019			DIBSW_UNIT	= 0000000C		
\$\$\$CHARS3	= 00000021			EFLAG	*****	X	04
\$\$\$CHARS4	= 00000026			EQUIV_PID	0000009E	R	02
\$\$\$CHARS5	= 00000000			EXPV	*****	X	04
\$\$\$COND_A	= 00000003			EXP_STATUS	0000011C	R	03
\$\$\$STRINGS	= 00000001			FAO_DESC	*****	X	04
\$\$\$STRINGS2	= 00000005			FAO_LEN	*****	X	04
SST1	= 00000001			FORM_CONDS	000002DE	RG	04
SST2	= 00000004			FORM_CONDSX	000003C7	R	04
BYTE	= 00000001	G		IMAGNAM	0000006D	R	02
CFLAG	*****	X	04	IOS_READVBLK	*****	X	04
CHMRTN	*****	X	04	LOGSC_SYSTEM	= 00000000		
CHM_CONT	*****	X	04	LOGNAM_PID	= 0000008C	R	02
COMP_SC	*****	X	04	LONG	= 00000004	G	
COND_T	= 0000028B	RG	04	MBXBUFF	0000008C	R	03
COND1_C	= 00000000			MBXCHAN	00000008	R	03
COND1_CLEANUP	= 0000028C	RG	04	MBXCHANINFO	0000000C	R	03
COND1_E	= 0000016B	R	03	MBXUNIT	00000088	R	03
COND1_H	= 0000012C	RG	03	MOD_MSG_CODE	*****	X	04
COND1_T	= 00000120	R	03	MOD_MSG_PRINT	*****	X	04
COND1_TAB	= 0000012D	R	03	MSGT_INP_CTL	00000019	R	02
COND2	= 0000028D	RG	04	MSG3_ERR_CTL	00000039	RG	02
COND2X	= 000002AF	R	04	MSG_A	*****	X	04
COND2_C	= 00000000			MSG_B	*****	X	04
COND2_CLEANUP	= 000002B0	RG	04	MSG_CTXT	*****	X	04
COND2_E	= 000001AD	R	03	NOTARG	= 00000000	G	
COND2_H	= 0000018C	RG	03	NULL	= 00000014	G	
COND2_T	= 00000177	R	03	ONES	*****	X	04
COND2_TAB	= 0000018D	R	03	ONE_MIN	00000051	R	02
COND3	= 000002B1	RG	04	OUTPUT_MSG	*****	X	04
COND3X	= 000002D8	R	04	PCB\$L_0IC	= 000000BC		
COND3_C	= 00000000			PCV	*****	X	04
COND3_CLEANUP	= 000002D9	RG	04	PHDSQ_PRIVMSK	= 00000000		
COND3_E	= 00000249	R	03	PRIVMASK	00000000	R	03
COND3_H	= 000001CA	RG	03	PRIV_ARGS	= 00000002		
COND3_T	= 000001B5	R	03	PROCESS_ERR	*****	X	04
COND3_TAB	= 000001CB	R	03	QUAD	= 00000008	G	
COND4	= 000002DA	RG	04	RECV	*****	X	04
COND4_C	= 00000014			REST_REGS	*****	X	04
COND4_CLEANUP	= 000002DB	RG	04	SAVE_REGS	*****	X	04
COND4_H	= 00000259	RG	03	SCH\$GL_CURPCB	*****	X	04
COND4_T	= 00000259	R	03	SS\$_NORMAL	*****	X	04
COND4_TAB	= 00000259	R	03	SUCCESS	*****	X	04
COND5	= 000002DC	RG	04	SYSSCANWAK	*****	GX	04
COND5_C	= 00000014			SYSSCMKRN	*****	GX	04
COND5_CLEANUP	= 000002DD	RG	04	SYSSCRELOG	*****	GX	04
COND5_H	= 0000025A	RG	03	SYSSCREMBX	*****	GX	04
COND5_T	= 0000025A	R	03	SYSSCREPRC	*****	GX	04
COND5_TAB	= 0000025A	R	03	SYSSDELLOG	*****	GX	04
CONFLICT	*****	X	04	SYSSDELMBX	*****	GX	04
CREATED_PID	= 00000118	R	03	SYSSDELPRC	*****	GX	04
CREATED_PRN	= 00000059	R	02	SYSSFAO	*****	X	04
CREATING_PID	= 00000114	R	03	SYSSFORCEX	*****	GX	04
CTL\$GL_PRD	*****	X	04	SYSSGETCHN	*****	GX	04

SYSSHIBER	*****	GX	04
SYSSQIOW	*****	GX	04
SYSSCHDWK	*****	GX	04
SYSSETPRN	*****	GX	04
SYSSETPRV	*****	GX	04
SYSSWAKE	*****	GX	04
TESTNUM	*****	X	04
TEST_MOD_NAME	000000000	RG	02
TEST_MOD_NAME_D	000000009	R	02
TEST_MOD_SUCC	*****	X	04
TMD_ADDR	*****	X	04
TM_CLEANUP	00000268	RG	04
TM_SETUP	000000000	RG	04
VERIFY	000003C8	RG	04
VERIFYX	00000725	R	04
VFY_CLEANUP	00000726	RG	04
WORD	= 00000002	G	
WRITE_MSG2	*****	X	04
ZEROPID	00000110	R	03

! Psect synopsis !

## PSECT name

PSECT name	Allocation	PSECT No.	Attributes
ABS	000000000	( 0.) 00 ( 0.)	NOPIE USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	000000000	( 0.) 01 ( 1.)	NOPIE USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
RODATA	000000A6	( 166.) 02 ( 2.)	NOPIE USR CON REL LCL NOSHR NOEXE RD NOWRT NOVEC LONG
RWDATA	0000025B	( 603.) 03 ( 3.)	NOPIE USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
SATSSS42	00000736	( 1846.) 04 ( 4.)	NOPIE USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

! Performance indicators !

## Phase

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.07	00:00:00.37
Command processing	113	00:00:00.61	00:00:02.18
Pass 1	316	00:00:09.72	00:00:20.20
Symbol table sort	0	00:00:00.79	00:00:00.81
Pass 2	136	00:00:02.34	00:00:03.22
Symbol table output	16	00:00:00.10	00:00:00.12
Psect synopsis output	2	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	614	00:00:13.66	00:00:26.93

The working set limit was 1350 pages.

51508 bytes (101 pages) of virtual memory were used to buffer the intermediate code.

There were 30 pages of symbol table space allocated to hold 510 non-local and 48 local symbols.

624 source lines were read in Pass 1, producing 26 object records in Pass 2.

51 pages of virtual memory were used to define 41 macros.

-----  
! Macro library statistics !  
-----

Macro library name

-----  
\$255\$DUA28:[SHRLIB]UETP.MLB;1  
-\$255\$DUA28:[SYS.OBJ]LIB.MLB;1  
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2  
TOTALS (all libraries)

Macros defined

-----  
8  
3  
27  
38

934 GETS were required to define 38 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LI\$:\$SATSSS42/OBJ=OBJ\$:\$SATSSS42 MSRC\$:\$SATSSS42/UPDATE=(ENH\$:\$SATSSS42)+EXECML\$/LIB+SHRLIB\$:\$UETP/LIB

0423 AH-BT13A-SE  
VAX/VMS V4.0

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